

CLAIMS

1. Adhesive composition for use in the manufacture of wood-based boards, said adhesive composition containing resin, a filler, a foaming agent and a solvent, and said composition being foamable, characterized in that the adhesive composition contains 40 - 80 w-% resin, 5 - 30 w-% filler, 0 - 40 w-% solvent, and 0.1 - 10 w-% foaming agent selected from organic and/or inorganic surface-active sulfate, sulfonate, phosphate or phosphonate compounds or their derivatives or mixtures.

2. Adhesive composition according to claim 1, characterized in that the foaming agent is lauryl sulfate, lauryl ether sulfate, benzene sulfate or a compound, derivative or mixture of these.

3. Adhesive composition according to claim 2, characterized in that the lauryl sulfate or lauryl ether sulfate has been selected from the group: sodium lauryl sulfate, ammonium lauryl sulfate, potassium lauryl sulfate, sodium lauryl ether sulfate, ammonium lauryl ether sulfate, potassium lauryl ether sulfate, a derivative of these or a mixture of these or the like.

4. Adhesive composition according to claim 1 or 2, characterized in that the foaming agent has been selected from the group: sodium isopropyl sulfonate, sodium lauryl sulfonate, sodium benzene sulfonate, sodium alkyl benzene sulfonate, ammonium lauryl phosphate, ammonium lauryl sulfonate, potassium olein sulfate, sodium naphthalene sulfonate or a compound, derivative or mixture of these or the like.

5. Adhesive composition according to any one of claims 1 - 4, characterized in that the composition contains 0.1 - 5 w-% foaming agent.

6. Adhesive composition according to any one of claims 1 - 5, characterized in that the adhesive composition contains 1 - 10 w-% foaming agent,

of which 0.1 - 30 w-% consists of lauryl sulfate, lauryl ether sulfate, benzene sulfate or compounds, derivatives or mixtures of these.

7. Adhesive composition according to any one
5 of claims 1 - 6, characterized in that the resin has been selected from the group: UF, MUF, MUFP, PF, PMF, PRF, a derivative of these or a mixture of these or the like.

8. Adhesive composition according to any one
10 of claims 1 - 7, characterized in that the composition contains 50 - 70 w-% resin.

9. Adhesive composition according to any one of claims 1 - 8, characterized in that the composition contains 8 - 20 w-% filler.

10. Adhesive composition according to any one
15 of claims 1 - 9, characterized in that the filler has been selected from the group: starch, wheat meal, chalk, sodium carbonate, potassium carbonate, calcium carbonate, ammonium sulfate, wood powder, quebracho or a derivative or mixture of these or the like.
20

11. Adhesive composition according to any one of claims 1 - 10, characterized in that the composition contains 12 - 35 w-% solvent.

12. Adhesive composition according to any one
25 of claims 1 - 11, characterized in that the solvent is water or an organic solvent.

13. Adhesive composition according to any one of claims 1 - 12, characterized in that the
30 adhesive composition contains air added to it.

14. Adhesive composition according to any one of claims 1 - 13, characterized in that the foaming agent is in solid, liquid or paste-like state.

15. Adhesive composition according to any one
35 of claims 1 - 14, characterized in that the adhesive composition has been produced by mixing the

resin, filler, foaming agent and solvent together to form an emulsion.

16. Adhesive composition according to any one of claims 1 - 15, characterized in that the
5 adhesive composition has been produced by mixing the resin, filler, foaming agent and solvent together at a temperature of over 40 °C.